119553

Page 1

Friday, May 16,	2014 1:10:09 PM									
Item ID: Revision ID:	D3631-1		Accept	*N900	040	100)* s	etup Sta	rt *N	S1*
Item Name:	Washer	100	/					Sto	ь * И	S2*
	5/15/14 Start Qty: 50.00	• • • • • • • • • • • • • • • • • • • •		Cust Item I	D:					
Required Date:	5/15/14 Req'd Qty: 50.00	° *5⁄0*		Customer:						
Reference:						_	n	Sto.		
Approvals:	Process Plan: MCJ	Date: 14-05-72	Tooling:	Da	ate:		K	lun Sta Sto	~! <i>\</i> J	R1*
	QC:	Date:	SPC (Y/N):	Da	ate:			510	* *N	R2*
Sequence ID/ Work Center I	Operation D Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr									
D3631	Rev A									
100			0.00					<i>b</i> 1	,	
100	PURCHASING						_CX	14/0	5/23	160
Purchasing Purchasing	Memo Issue P/C Master C	0:24325 Purchase Part N arrCertificate of conformity is		blier: Mc						
110	Receive & Inspect for	Damage & Mat'l Certs	0.00				/		/ (_
110 Packaging Packaging	Memo Ensure c	ertificate of conformity is attac	0.00				_/_	14/9/-	30 ()	02/
120 *120* QC: Quality Control	QC6- Inspect dimens Memo	ions to drawing	0.00 PAS 0.00 27 0.00 MS	137			_[00			

DQA:	QA: Date: WORK ORDER NON-CONFORMANCE / UPDATE								DART				
QA Closed:			Date:			WORK ORDER NON-	-00	JINFOI	RIVIANCE / OPDATE		ork Order up	odate only	AEROSPACE 4
NAZ - wlo Owede						DISPOSITION							
Work Orde	er:					Rework		Skid-tube Cross		Water Jet	Engineering		
Dart N	lo.					Scrap	- I		Skid-tube Crosstube Machining Small Fab		Pro	d. Eng. Coor.	Quality
Part No.						Use-as-is			~ <u> </u>	shing	i	re/Packaging	Other
NCR N	lo.					Suspected Unapproved			~ —	osite	,	1 1	
	_												
Root					Desci	ription of work order update	I	nitial	Action		Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
Design													
Doc/Data													
Equip/Tooling	_												
Handling/Pre	_												
Material	_												
Operator	_												
Offset/Setup			•		,								
Process													
Supplier													
Training												:	
Transport													
Unapproved							L	-			<u> </u>		
			_				FA	ULT CA	regory				
Landi					_	General	_	1 /-		_	10		Pressure/Forced
	_	nding	_		-	Bend	⊢	4	Program	<u> </u>	Outside Dim	-	Set-up
			t Concer	ntric		BOM/Route	<u> </u>	Grain			Over/Under	 	Temperature/Cure
i	\blacksquare	acks		6	-	Broken/Damage/Defect	<u> </u>	Hardwa			Part Incorred	 	Weld
		• •	k/Ripple	/Wave	\vdash	Burrs	⊢	- '	ion Incomplete/Unqualified	°	Part Lost/Mi Part Moved	SSITIE	Wrong Stock Pulled
	$oldsymbol{oldsymbol{ ext{}}}$	iffs			<u> </u>	Countamination	-	4	tions Incomplete/Unclear		Positioned V	Vrong	TANTOLIE STOCK LAUGA
	$oldsymbol{oldsymbol{ o}}$	ushing			\vdash	Countersink	-	Mislabe	gned/off center	\vdash	Power Loss/	_	Other
	lacksquare	at Trea		Tb -	-	Cut Too Short	\vdash	4		<u> </u>	Trower ross/	Juige	Other
		-	n Strip in	rupe	<u> </u>	Drawing Drill Holos	\vdash	Misrea					
		arks/Ch			\vdash	Drill Holes	\vdash	Off-set				-·	
	_		equence		-	Finish	-	4	Calibration				
	Wave/Twist in Tube				Fit/Function		Tout of :	Sequence					

119553

Page 2

Friday, May 16, 2014 1:10:09 PM Accept **Item ID:** D3631-1 *N900040100* Setup Start **Revision ID:** Stop Washer **Item Name:** *50* **Start Qty: 50.00** 5/15/14 **Start Date: Cust Item ID:** Required Date: 5/15/14 Req'd Qty: 50.00 *50* **Customer:** Reference: Run Start **Tooling:** Date: Date: **Approvals:** Process Plan: Stop SPC (Y/N): Date:_ Date: QC: Tool ID Tool # Plan Reject Reject Sequence ID/ Operation Set Up/ Accept Insp. Oty Oty Number Stamp Code **Work Center ID** Description **Run Hours** Identify as per dwg & Stock Location: FPCO 0.00 130 100x 14-5-2 *120* 0.00 Packaging Memo Packaging 140 QC21- Final Inspection - Work Order Release 0.00 *140* 0.00 QC Memo Quality Control

JH14-05.27

DQA:			Date:													
QA Closed:			Date:			WORK ORDER NON-	-CC	ONFO	RMANCE / U	PDATE	Wo	ork Order up	odate only	AEROSPACE		
QA Closed.			Dute.					AGAINST DEPARTMENT/PROCESS								
Work Order: DISPOSITIO							ı			AGAINST	DE	PARTMENT,	PROCESS			
						Rework			Skid-tube Crosstube				Water Jet	Engineering		
Part No.					Scrap			Machining Small Fab			Pro	d. Eng. Coor.	Quality			
				Use-as-is		Thermoforming Finishi				Rec/Stor	e/Packaging	Other				
NCR N	10.					Suspected Unapproved		Large Fab Composit					Supplier			
		·	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***						s: 0				
Root				_	Desci	ription of work order update		nitial		tion		Sign &	Mauifiantian	OC Inspector		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	QC Inspector		
Design																
Doc/Data	\dashv															
Equip/Tooling									•							
Handling/Pre Material		-														
Operator																
Offset/Setup																
Process						•							i			
Supplier																
Training																
Transport			ŀ													
Unapproved			<u> </u>													
							FA	ULT CAT	regory					. <u>-</u>		
Landi	ng G	1			_	General 1₋ .		1 /-			Г	المناط والمالية		Pressure/Forced		
		Bending				Bend	\vdash	4	rogram		⊣	Outside Dim Over/Under	—	Set-up		
		Centre No	ot Concer	ntric		BOM/Route	_	Grain Hardwa	uro.		-	Part Incorre	—	Temperature/Cure		
	\vdash	Cracks Crimp/Kir	nk/Dinnla	/\A/~~	\vdash	Broken/Damage/Defect Burrs	-	4	ire ion Incomplete/U	ngualified	-	Part Lost/Mi	<u>-</u>	Weld		
	-	Cuffs	ıv\ vibbie	y vvave	-	Contamination	\vdash	4	ions Incomplete/		-	Part Moved	-	Wrong Stock Pulled		
	-	Crushing			\vdash	Countersink	-	4	ned/off center			Positioned V	∟ Vrong]		
		Heat Trea	ıt			Cut Too Short		Mislabe				Power Loss/		Other		
	\vdash	Inspection		Tube		Drawing		Misrea				•	· •			
		Marks/Ch				Drill Holes		Off-set								
		Turning S				Finish		Out of	Calibration							
	Wave/Twist in Tube					Fit/Function		Out of Sequence								

¿ Friday, May 16, 2014 1:10:12 PM

Work Order ID: 119553

119553

Parent Item:

D3631-1

D3631-1

Parent Item Name: Washer

Start Date: 5/15/14

Required Date: 5/15/14

Start Qty: 50.00

Required Qty: 50.00

Comments:

IPP Rev:A New Issue 07-07-28 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Primary Item Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
95606A170		Purchased	No		110	Each	0.0000	1	50	1		
95606A1	70							**		1-11	6/26	(100

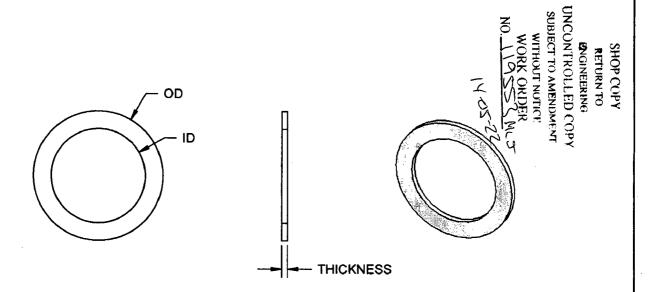
Washer

DQA:			Date:		-	WORK ORDER NON-CONFORMANCE / UPDATE									
QA Closed:			Date:			WORK ORDER NON-			NIVIAINCE / O		W	ork Order up	odate only	AEROSPACE	
Mark Orde						DISPOSITION				AGAINST	T DEPARTMENT/PROCESS				
Work Orde	er: -					Rework			Skid-tube	Crosstube			Water Jet	Engineering	
Part No.						Scrap		Machining Small Fa			-	Pro	d. Eng. Coor.	Quality	
						Use-as-is		Thermoforming Finishin			\vdash			Other	
NCR No.						Suspected Unapproved		Large Fab Composite			F				
Root				•	Desci	ription of work order update		nitial	Act	tion		Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	QC Inspector	
Design	_														
Doc/Data															
Equip/Tooling															
Handling/Pre															
Material	\dashv														
Operator															
Offset/Setup							l								
Process	-														
Supplier	\Box												i		
Training	\Box		1												
Transport	-														
Unapproved				L	<u> </u>			UT CAT	I CORV			<u> </u>			
					-		FAU	ULI CA	regory						
Landi						General];_/c	rogram			Outside Dim	onsions	Pressure/Forced	
	\vdash	Bending				Bend	_	Grain	Togram		-	Over/Under		Set-up	
	\vdash	Centre No	ot Concer	ntric		BOM/Route	\vdash	Hardwa			H	Part Incorre	—	Temperature/Cure	
	-	Cracks	- I. /D:I.	/\41=	ļ	Broken/Damage/Defect		1	ire ion Incomplete/U	ngualified	\vdash	Part Lost/Mi		Weld	
	-	Crimp/Kir	тк/кірріе	y wave	 	Burrs	⊢	1	ion incomplete/o		H	Part Moved	331116	Wrong Stock Pulled	
		Crushing			\vdash	Contamination Countersink		4	ned/off center	Officieal	-	Positioned V	L Vrong	7	
	-	Crushing Heat Trea	.+		.	Cut Too Short	-	Mislabe			 -	Power Loss/		Other	
	⊢⊣			Tubo	-	Drawing		Misread				J. 5 W.C. 1033/		1	
					Drill Holes	\vdash	Off-set	<i>A</i>							
	-	Turning S			<u></u>	Finish	\vdash	4	Calibration						
	-	Wave/Tw			_	Fit/Function	\vdash	4	Sequence						
	1 1	vvave/ IW	ารเกาน	76		phyruncuon	1	Jour or.	Jequence						



 DESIG	ČB	DRAWN BY		AEROSPACE LTD ESBURY, ONTARIO, CANADA
CHECK	(ED	APPROVED	DRAWING NO.	REV. A
	<u>PH</u>	TAX	D3631	SHEET 1 OF 1
DATE	07.6	NE 40	TITLE	SCALE
	07.0	05.16	WASHER	NTS
REV		DATE		DESCRIPTION
Α		07.05.16	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



D3631-X WASHER



PART NUMBER	OD	ID	THICKNESS	MATERIAL	SUPPLIER
D3631-1	0.688	0.500	0.031	NYLON	McMASTER-CARR P/N: 95606A170

NOTES:
1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO24325

Purchase Order Date 5/23/2014 PO Print Date 5/23/2014

Page Number 2 of 4

Order From:

US

VU-MCM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Ship To Contact

Ship To Phone

P.O. BOX 7690

Vendor Phone

330 995 5500

Buyer

Chantal Lavoie

MCMASTER-CARR SUPPLY CO,

CHICAGO, IL 60680-7690

Customer POID Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FedEx PI collect

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct:

6718K52

Fitting, Quick Disconnect

5/28/2014

Yes

5.00 Each

\$5.64

\$28.20

5/28/2014

AS PER DWG D4182 REV. B

B119497

Line Total:

\$28.20

95606A170

AŞ PER DWG D3631 REV. A

Washer

5/28/2014 Yes 5/28/2014

100.00

Each

\$0.10

\$10.14 ~

Line Total:

\$10.14

92311A639

SS SET SCREW

5/28/2014

Yes 5/28/2014

100.00

Each

\$0.64

\$63.60 /

AS PER DWG D2747 REV. B

B119525

Line Total:

\$63.60

Note:

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Total:

\$211.99

.i. •

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO24325

Page 2 of 2,

Order Placed By Chantal Lavoie 05/23/2014

McMaster-Carr Number 4252943-02

Line	Description		Ordered	Shipped		LNS A11
4 9560 27 9-8	6A170 Nylon 6/6 General Purp 7/16" Screw Size, .69" Packs of 100	ose Flat Washer, Off-White, OD, .02"04" Thickness,	1 Pack	· /	2 - 623	4
441	Unit Price: Extended Price:	\$10.14 \$10.14	•			
6 9173 :	2A719 18-8 Stainless Steel St Internal Thread, 0.380" of 10 Your Part Number: 715	Length, MS122160, Packs	15 Packs		2 - 135	ť
	Unit Price: Extended Price:	\$6.06 \$90.90	[4][6]	26		
Charges f	or this shipment					
	Merchandise Amount:	\$211.99				

6